

Faith Alliance for Climate Solutions  
Optimal Scenario from Energy Policy Simulator

Policy	Year1	Value1	Year2	Value2	Year3	Value3	Year4	Value4
Electric Vehicle Charger Deployment	2018	0	2019	0	2050	300		
Electric Vehicle Range & Charging Time	2018	0%	2019	0%	2050	50%		
Electric Vehicle Sales Mandate: Passenger LDVs	2018	0%	2019	0%	2050	50%		
Electric Vehicle Sales Mandate: Freight LDVs	2018	0%	2019	0%	2050	50%		
Electric Vehicle Sales Mandate: Passenger HDVs	2018	0%	2019	0%	2050	50%		
Electric Vehicle Sales Mandate: Freight HDVs	2018	0%	2019	0%	2050	50%		
Electric Vehicle Subsidy: Passenger LDVs	2018	0%	2019	0%	2050	25%		
Fuel Economy Standard: Passenger LDVs	2018	0%	2019	0%	2050	50%		
Fuel Economy Standard: Freight LDVs	2018	0%	2019	0%	2050	50%		
Fuel Economy Standard: Passenger HDVs	2018	0%	2019	0%	2050	33%		
Fuel Economy Standard: Freight HDVs	2018	0%	2019	0%	2050	33%		
Low Carbon Fuel Standard	2018	0%	2019	0%	2050	10%		
Transportation Demand Management: Passengers	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Urban Residential Heating	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Urban Residential Appliances	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Urban Residential Other Components	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Commercial Heating	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Commercial Appliances	2018	0%	2019	0%	2050	50%		
Building Component Electrification: Commercial Other Components	2018	0%	2019	0%	2050	50%		
Building Energy Efficiency Standards: Urban Residential Heating	2018	0%	2019	0%	2050	11%		
Building Energy Efficiency Standards: Urban Residential Cooling and Ventilation	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Urban Residential Envelope	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Urban Residential Lighting	2018	0%	2019	0%	2050	20%		
Building Energy Efficiency Standards: Urban Residential Appliances	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Urban Residential Other Components	2018	0%	2019	0%	2050	6%		
Building Energy Efficiency Standards: Commercial Heating	2018	0%	2019	0%	2050	11%		
Building Energy Efficiency Standards: Commercial Cooling and Ventilation	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Commercial Envelope	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Commercial Lighting	2018	0%	2019	0%	2050	20%		
Building Energy Efficiency Standards: Commercial Appliances	2018	0%	2019	0%	2050	19%		
Building Energy Efficiency Standards: Commercial Other Components	2018	0%	2019	0%	2050	6%		
Distributed Solar Carve-Out	2018	0%	2019	0%	2050	12%		
Distributed Solar Subsidy	2018	0%	2019	0%	2020	25%	2050	25%
Retrofit Existing Buildings: Urban Residential	2018	0%	2019	0%	2050	25%		
Retrofit Existing Buildings: Commercial	2018	0%	2019	0%	2050	25%		
Rebate for Efficient Products: Heating	2018	Off	2019	Off	2020	On	2050	On
Rebate for Efficient Products: Cooling and Ventilation	2018	Off	2019	Off	2020	On	2050	On
Rebate for Efficient Products: Appliances	2018	Off	2019	Off	2020	On	2050	On
Ban New Power Plants: Hard Coal	2018	Off	2019	Off	2020	On	2050	On
Ban New Power Plants: Natural Gas Nonpeaker	2018	Off	2019	Off	2020	On	2050	On

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Ban New Power Plants: Lignite	2018	Off	2019	Off	2020	On	2050	On
Carbon-free Electricity Standard	2018	0%	2019	0%	2050	100%		
Demand Response	2018	0%	2019	0%	2020	50%	2050	50%
Early Retirement of Power Plants: Hard Coal	2018	0	2019	0	2020	10000	2050	10000
Grid-Scale Electricity Storage	2018	0%	2019	0%	2020	6%	2050	6%
Subsidy for Capacity Construction: Onshore Wind	2018	0%	2019	0%	2050	50%		
Subsidy for Capacity Construction: Solar PV	2018	0%	2019	0%	2050	50%		
Subsidy for Capacity Construction: Offshore Wind	2018	0%	2019	0%	2050	50%		
Subsidy for Electricity Production: Onshore Wind	2018	0	2019	0	2020	25	2050	25
Subsidy for Electricity Production: Solar PV	2018	0	2019	0	2020	30	2050	30
Subsidy for Electricity Production: Offshore Wind	2018	0	2019	0	2020	30	2050	30
Cogeneration and Waste Heat Recovery	2018	0%	2019	0%	2050	50%		
Industry Energy Efficiency Standards: Water & Waste	2018	0%	2019	0%	2050	33%		
F-Gas Substitution	2018	0%	2019	0%	2050	100%		
F-Gas Destruction	2018	0%	2019	0%	2050	100%		
F-Gas Recovery	2018	0%	2019	0%	2050	100%		
F-Gas Eqpt. Maintenance & Retrofits	2018	0%	2019	0%	2050	100%		
Material Efficiency, Longevity, & Re-Use: Water & Waste	2018	0%	2019	0%	2050	50%		
Methane Capture: Water & Waste	2018	0%	2019	0%	2050	50%		
Methane Destruction: Water & Waste	2018	0%	2019	0%	2050	50%		
Afforestation and Reforestation	2018	0%	2019	0%	2050	50%		
Shift to Non-Animal Products	2018	0%	2019	0%	2050	50%		
Use CHP for District Heat	2018	0%	2019	0%	2050	50%		
Carbon Tax: Transportation Sector	2018	0	2019	0	2050	150		
Carbon Tax: Electricity Sector	2018	0	2019	0	2050	150		
Carbon Tax: Residential Bldg Sector	2018	0	2019	0	2050	150		
Carbon Tax: Commercial Bldg Sector	2018	0	2019	0	2050	150		
Carbon Tax: Industry Sector	2018	0	2019	0	2050	150		
Carbon Tax Applies to Process Emissions	2018	On	2050	On				
End Existing Subsidies: Hard Coal	2018	0%	2019	0%	2050	100%		
End Existing Subsidies: Natural Gas	2018	0%	2019	0%	2050	100%		
End Existing Subsidies: Petroleum Gasoline	2018	0%	2019	0%	2050	100%		
End Existing Subsidies: Petroleum Diesel	2018	0%	2019	0%	2050	100%		
Fuel Taxes: Electricity	2018	0%	2019	0%	2050	10%		
Fuel Taxes: Hard Coal	2018	0%	2019	0%	2050	20%		
Fuel Taxes: Natural Gas	2018	0%	2019	0%	2050	10%		
Fuel Taxes: Petroleum Gasoline	2018	0%	2019	0%	2050	10%		
Fuel Taxes: Petroleum Diesel	2018	0%	2019	0%	2050	10%		

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